



PERSONNEL QUALIFICATION STANDARD FOR

SEABEE COMBAT WARFARE (SCW), UNIT SPECIFIC FOR NMCB

NAME (Rate/Rank) _____

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Although the words "he," "him," and "his" are used sparingly in this manual to enhance communication, they are not intended to be gender driven nor to affront or discriminate against anyone reading this material.

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PREFACE

Warfare Qualified Sailors are an essential element of our Navy's Operational Primacy. The objective of the Seabee Combat Warfare Program is to provide the candidate an introduction into the processes and topics necessary to support the warfighting requirements of our Navy. This personnel warfare qualification standard will focus on mission effectiveness, combat readiness and survivability as well as introducing an overall understanding of how an individual unit mission fits into and supports naval doctrine and its objectives. Experience shows it is essential that every warrior in our Navy be totally familiar with the mission of their command and be able to apply this knowledge to support the successful execution of the command's current and future missions.

TABLE OF CONTENTS

	Page
ACKNOWLEDGEMENTS	3
INTRODUCTION	5
ACRONYMS	7
100 INTRODUCTION TO FUNDAMENTALS	9
101 Administration/Command and Control	11
102 Supply/Logistics	13
103 Communications/Communications Security Material System	15
104 Weapons	17
105 Embarkation	26
106 Contingency Operations	27
107 Civil Engineer Support Equipment (CESE)	30
300 INTRODUCTION TO WATCHSTATIONS	33
301 Seabee Combat Warfare (SCW), Unit Specific for NMCB	35
LIST OF REFERENCES	49

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INTRODUCTION

PQS PROGRAM

This PQS program is a qualification system for officers and enlisted personnel where certification of a minimum level of competency is required prior to qualifying to perform specific duties. A PQS is a compilation of the minimum knowledge and skills that an individual must demonstrate in order to qualify to stand watches or perform other specific routine duties necessary for the safety, security or proper operation of a ship, aircraft or support system. The objective of PQS is to standardize and facilitate these qualifications.

CANCELLATION

This Standard cancels and supersedes NAVEDTRA 43535.

APPLICABILITY

This PQS is applicable to all personnel serving in NMCB units which are authorized to grant Seabee Combat Warfare designations IAW OPNAVINST 1410.1 (series).

TAILORING

To command tailor this package, first have it reviewed by one or more of your most qualified individuals, submitted to, and approved by the NCF SCW Model Manager (Code Seabee). For optimum training effectiveness, it is strongly recommended that the 301.3 section (Infrequent Tasks) be completed; however, the 301.3 section is not mandatory, due to possible resource restrictions that may or may not be imposed upon your individual unit, and may be tailored as appropriate subject to the Commanding Officer's discretion.

QUALIFIER

The PQS Qualifier is designated in writing by the Commanding Officer to sign off individual watchstations. Qualifiers will normally be E-5 or above and, as a minimum, must have completed the PQS they are authorized to sign off. The names of designated Qualifiers should be made known to all members of the unit or department. The means of maintaining this listing is at the discretion of individual commands. For more information on the duties and responsibilities of PQS Qualifiers, see the PQS Management Guide.

INTRODUCTION (CONT'D)

CONTENTS

PQS is divided into three sections. The 100 Section (Fundamentals) contains the fundamental knowledge or book learning necessary for satisfactory understanding of the watchstation/workstation duties. The 200 Section (Systems/Mission Areas) is designed to acquaint you with the systems you will be required to operate at your watchstation/workstation. The 300 Section (Watchstations) lists the tasks you will be required to satisfactorily perform in order to achieve final PQS qualification for a particular watchstation/workstation. All three sections may not apply to this PQS, but where applicable, detailed explanations are provided at the front of each section.

REFERENCES

The references used during the writing of this PQS package were the latest available to the workshop, however, the most current references available should be used when qualifying with this Standard. Classified references may be used in the development of PQS. If such references are used, do not make notes in this book as answers to questions in this Standard may be classified.

TRAINEE

Your supervisor will tell you which watchstations/workstations you are to complete and in what order. Before getting started, turn to the 300 Section first and find your watchstation/workstation. This will tell you what you should do before starting your watchstation/workstation tasks. You may be required to complete another PQS, a school, or other watchstations/workstations within this package. It will also tell you which fundamentals and/or systems from this package you must complete prior to qualification at your watchstation/workstation. If you have any questions or are unable to locate references, contact your supervisor or qualifier. Good luck!

PQS FEEDBACK REPORTS

This PQS was developed using information available at the time of writing. When equipment and requirements change, the PQS needs to be revised. The only way the PQS Development Group knows of these changes is by you, the user, telling us either in a letter or via the Feedback Report contained in the back of this book. You can tell of us new systems and requirements, or of errors you find.

ACRONYMS USED IN THIS PQS

Not all acronyms or abbreviations used in this PQS are defined here. The Subject Matter Experts from the Fleet who wrote this Standard determined the following acronyms or abbreviations may not be commonly known throughout their community and should be defined to avoid confusion. If there is a question concerning an acronym or abbreviation not spelled out on this page nor anywhere else in the Standard, use the references listed on the line item containing the acronym or abbreviation in question.

ABFC	Advance Base Functional Component
ACR	Allowance Change Request
AMC	Air-lift Military Command
BDR	Battle Damage Repair
CBR	Chemical Biological Radiological
CESE	Civil Engineer Support Equipment
CINC	Fleet Commander in Chief
CMC	Command Master Chief
CNO	Chief of Navy Operations
COMSEC	Communication Security
COSAL	Coordinated Shipboard/Shorebased Allowance List
CPO	Chemical Protective Overgarment
DRMO	Defense Reutilization Marketing Office
EDVR	Enlisted Distribution Verification Report
EMP	Electromagnetic Pulse
GFCI	Ground Fault Circuit Interruption
HM/HW	Hazardous Material/Hazardous Waste
LOGREQ	Logistical Requirements
MAGTF	Marine Air/Ground Task Force
MCPON	Master Chief Petty Officer of the Navy
MOCC	Mount Out Control Central
MOV	Material Obligation Validation
MSDS	Material Safety Data Sheet
NATO	North Atlantic Treaty Organization
NCB	Navy Construction Brigade
NCF	Naval Construction Force
NCR	Naval Construction Regiment
OPLANs	Operational Plans
OPORDs	Operational Orders
OPREP	Operational Report
OPTAR	Operating Target
Oxime	Atropine/Pralidoxime Chloride
PCB	Polychlorinated Biphenyl
PCR	Project Control Report
PD	Priority Designator

ACRONYMS USED IN THIS PQS (CONT'D)

PPE	Personal Protection Equipment
PRCP	Personnel Readiness Capability Program
PSR	Project Status Report
QDR	Quality Deficiency Report
RO/RO	Roll On/Roll Off
ROD	Report of Deficiency
RRR	Rapid Runway Repair
SECNAV	Secretary of the Navy
SITREP	Situation Report
SORTS	Status of Requirements and Training Support
TOA	Table of Allowance
TPI	Two-Person Integrity

100 INTRODUCTION TO FUNDAMENTALS

100.1 INTRODUCTION

This PQS begins with a Fundamentals section covering the basic knowledge and principles needed to understand the equipment or duties to be studied. Normally, you would have acquired the knowledge required in the Fundamentals section during the school phase of your training. If you have not been to school or if you need a refresher, the references listed at the beginning of each fundamental will aid you in a self-study program. All references cited for study are selected according to their credibility and availability.

100.2 HOW TO COMPLETE

The fundamentals you will have to complete are listed in the watchstation (300 section) for each watchstation. You should complete all required fundamentals before starting the systems and watchstation portions of this PQS, since knowledge gained from fundamentals will aid you in understanding the systems and your watchstation tasks. When you feel you have a complete understanding of one fundamental or more, contact your Qualifier. If you are attempting initial qualification, your Qualifier will expect you to satisfactorily answer all line items in the fundamentals before signing off completion of that fundamental. If you are requalifying or have completed the appropriate schools, your Qualifier may require you to answer representative line items to determine if you have retained the necessary knowledge for your watchstation. If your command requires an oral board or written examination for final qualification, you may be asked any questions from the fundamentals required for your watchstation.

101 ADMINISTRATION/COMMAND AND CONTROL FUNDAMENTALS

References:

- [a] NAVFAC P-315, Naval Construction Force Manual
 - [b] NAVEDTRA 12004, Seabee Combat Handbook, Vol. 2
 - [c] COMSECOND/THIRDINST 3501.1, Status of Readiness Training System
-

101.1 Discuss the function of the following companies within the battalion: [ref. a]

- a. Alfa [pp. 8-7 thru 8-9]
- b. Bravo [pp. 8-10 thru 8-12]
- c. Charlie/Delta [pp. 8-12 thru 8-14]
- d. Headquarters [pp. 10-1 thru 10-3]

(Signature and Date)

.2 Describe the duties and responsibilities of the following departments/divisions: [ref. a]

- a. Admin/Personnel (S-1) [pp. 3-5, 4-1 thru 4-5]
- b. Intel (S-2) [p. 3-5]
- c. Operations (S-3) [pp. 6-1 thru 6-22]
- d. Supply (S-4) [pp. 3-5, 7-1 thru 7-4]
- e. Comm/ADP (S-6) [pp. 3-7, 3-8]
- f. Training (S-7) [pp. 3-5, 5-1 thru 5-17]
- g. Special staff (X codes) [pp. 3-5 thru 3-12]

(Signature and Date)

.3 State the duties and responsibilities of the Company Chief. [ref. a, p. 8-4]

(Signature and Date)

101 ADMINISTRATION/COMMAND AND CONTROL FUNDAMENTALS (CONT'D)

101.4 State the purpose of and describe the following:

- a. Combat Operation Center (COC) [ref. b, pp. 1-6 thru 1-16]
- b. Alternate Combat Operation Center (ACOC) [ref. b, p. 1-8]
- c. Field Exercise (FEX) [ref. c, p. 4]
- d. Air Detachment (AIRDET) [ref. a, p. G-4]

(Signature and Date)

102 SUPPLY/LOGISTICS FUNDAMENTALS

References:

- [a] Seabee Logistics Training Guide Series, Logistics Support Module #1
 - [b] Seabee Logistics Training Guide Series, Logistics Support Module #3
 - [c] COMSECONDNCB/COMTHIRDNCBINST 4400.3, Seabee Supply Manual
 - [d] NAVSUP P-485, Afloat Supply, Vol. 1
 - [e] NAVSUPINST 4200.85C, International Merchant Purchase Authorization Card (IMPAC) Card
 - [f] Seabee Logistics Training Guide Series, Logistics Support Module #2
-

102.1 State the purpose of the Naval Mobile Construction Battalion (NMCB) Table of Allowance (TOA) as it relates to the following: [ref. a, p. 21]

- a. P-25A (TA-41)
- b. P-25C (TA-31)
- c. P-25D (TA-22)

(Signature and Date)

.2 Discuss the purpose of the Micro SNAP II Program. [ref. d, p. 1-74]

(Signature and Date)

.3 State the purpose of the Non-Operational Ready-Supply/Anticipated Non-Operational Ready-Supply (NORS/ANORS) Program. [ref. c, p. 3-6]

(Signature and Date)

.4 State the intended purpose of the Camp Maintenance Store Room (CMSR). [ref. c, p. 1-15]

(Signature and Date)

.5 Explain the uses of the International Merchant Purchase Authorization Card (IMPAC) (VISA) card. [ref. e, ch. 6A]

(Signature and Date)

102 SUPPLY/LOGISTICS FUNDAMENTALS (CONT'D)

102.6 Discuss how the OPTAR/budget impacts your NMCB unit. [ref. d, p. 9-3]

(Signature and Date)

.7 Discuss the difference between organic and augment tools, equipment, and repair parts. [ref. f, app. 10, p. 1; app. 11, p. 5]

(Signature and Date)

.8 State where to find the Master Packing Plan (MPP) and TOA As-Packed (TAP) report in a containerized TOA. [ref. b, p. 37]

(Signature and Date)

103 COMMUNICATIONS/COMMUNICATIONS SECURITY MATERIAL SYSTEM FUNDAMENTALS

References:

- [a] NAVEDTRA 12003, Seabee Combat Handbook, Vol. 1
 - [b] TM-11-5820-890-10-8, SINCGARS Ground Combat Net Radio, ICOM
 - [c] TM-11-5895-1079-14-1, Facsimile Set, Tactical AN/GXC-7A
 - [d] TM-11-5810-292-13&P, Technical Manual KYK-13, KOI-18, KYX-15
 - [e] TM-10247A-13, Limited Maintenance Manual TSEC K99A
 - [f] KL-43 (Series), Operational Manual
 - [g] Motorola 68P81044C05-A
 - [h] Motorola 68P7991D12-D
 - [i] NAVEDTRA 12004, Seabee Combat Handbook, Vol. 2
 - [j] TM-11-5825-291-13, Satellite Signal Navigation Set AN/PSN-11
-

103.1 Discuss the general characteristics, operator maintenance, and antenna systems for the following:

- a. AN/PRC-119A [ref. a, pp. 1-7, 5-1 thru 5-7, 5-16]
- b. AN/PRC-104B [ref. a, pp. 11-6 thru 11-12]
- c. AN/BRC-90A/91 [ref. b, p. 2-14]
- d. AN/GRA-39 [ref. a, pp. 11-12, 11-13]
- e. AN/BRC-92A [ref. b, p. 2-16]
- f. VHF handheld SABER 1 fascinator [ref. g, p. 1]
- g. VHF base station MODP1755 [ref. h, p. 2-4]

(Signature and Date)

.2 Discuss the general characteristics and operator maintenance of the following interconnecting wire communication assets: [ref. a]

- a. SB-22/PT [pp. 11-20 thru 11-25]
- b. TA-312/PT [pp. 11-18, 11-19]
- c. TA-1/PT [pp. 11-19, 11-20]

(Signature and Date)

.3 Describe the general characteristics and operator maintenance for AN/PSN-11 Global Positioning System (GPS). [ref. j, pp. 3-5, 3-6]

(Signature and Date)

103 COMMUNICATIONS/COMMUNICATIONS SECURITY MATERIAL SYSTEM FUNDAMENTALS (CONT'D)

103.4 Describe the use and operation of a tactical facsimile. [ref. c, pp. 1-8 thru 1-15]

(Signature and Date)

.5 Discuss the use of the following Communications Security Material system equipment:

- a. KY 99A MINTERN [ref. e, pp. 9 thru 12]
- b. KL 43 [ref. f, p. 1]
- c. AN/CYZ-10 [ref. b, pp. 3-1 thru 3-4]
- d. KOI-18 [ref d, pp. 2-1 thru 2-6]
- e. KYK-13 [ref. d, pp. 2-7 thru 2-39]

(Signature and Date)

.6 Discuss the tactical employment and purpose of Naval Mobile Construction Battalion (NMCB) communication systems. [ref. i, pp. 1-1 thru 2-7]

(Signature and Date)

.7 Discuss the procedure for installing Communications Security Material system information into the AN/PRC-119A. [ref. b, pp. 5-25, 5-29, 5-30]

(Signature and Date)

104 WEAPONS FUNDAMENTALS

References:

- [a] NAVEDTRA 12003, Seabee Combat Handbook, Vol. 1
- [b] FM 23-27-MK19, 40mm Grenade Machine Gun, Mod. 3
- [c] NAVEDTRA 12004, Seabee Combat Handbook, Vol. 2
- [d] NAVFAC P-315, Naval Construction Force Manual
- [e] FM 23-99, Mortars
- [f] NAVEDTRA 12443, Gunner's Mate
- [g] FM 23-9, M16A1 AND M16A2 Rifle Marksmanship
- [h] TM-11-5855-214-10, Night Vision Sight, Crew Served Weapon
- [i] TM-11-5855-213-23&P, Night Vision Sight, Individual Weapon
- [j] TM-SW215-AK-MMO-010, Night Vision Sight, Individual Goggles
- [k] NAVSEA OP 4067, Operator Manual for AN/VPS-11, Pocket Scope Night Vision Device

The following items apply to the 7.62mm M60 machine gun:

- 104.1 Describe the 7.62mm M60 machine gun. [ref. a, p. 13-5]

(Signature and Date)

- .2 Discuss loading/unloading procedures. [ref. a, p. 13-9]

(Signature and Date)

- .3 State the following capabilities/characteristics: [ref. a]

- a. Length [p. 13-5]
- b. Weight [p. 13-5]
- c. Maximum range [p. 13-6]
- d. Maximum effective range [p. 13-6]
- e. Safeties [p. 13-6]
- f. Ammunition types [pp. 13-15, 13-16]
- g. Rates of fire [p. 13-6]
- h. Types of fire [p. 13-6]
- i. Types of mounting pods [pp. 13-6, 13-7]

(Signature and Date)

104 WEAPONS FUNDAMENTALS (CONT'D)

- 104.4 Name the three types of emplacements that might be employed in a defensive position. [ref. c, pp. 4-14 thru 4-16]

(Signature and Date)

- .5 Name the members of a gun team and state what they are responsible for carrying into a combat situation. [ref. a, p. 1-17]

(Signature and Date)

- .6 Discuss how tracer rounds are used. [ref. a, p. 13-16]

(Signature and Date)

The following items apply to the 40mm machine gun (MK 19):

- .7 Describe the 40mm machine gun. [ref. a, p. 13-31]

(Signature and Date)

- .8 Discuss loading/unloading procedures. [ref. b, p. 2-15]

(Signature and Date)

- .9 State the following capabilities/characteristics:

- a. Length [ref. c, p. 13-31]
- b. Weight [ref. c, p. 13-31]
- c. Maximum range [ref. c, p. 13-32]
- d. Arming range [ref. c, p. 13-32]
- e. Muzzle velocity [ref. c, p. 13-32]
- f. Rate of fire [ref. c, p. 13-31]
- g. Safety [ref. b, p. 2-17]
- h. Ammunition types [ref. c, p. 13-32]

(Signature and Date)

104 WEAPONS FUNDAMENTALS (CONT'D)

The following items apply to the .50 caliber M2 HB machine gun:

- 104.10 Describe the operation of the .50 caliber M2 machine gun. [ref. a, p. 13-18]

(Signature and Date)

- .11 Discuss loading/unloading procedures. [ref. a, pp. 13-26, 13-27]

(Signature and Date)

- .12 State the following capabilities/characteristics: [ref. a]

- a. Length [p. 13-19]
- b. Weight [p. 13-19]
- c. Maximum range [p. 13-19]
- d. Maximum effective range [p. 13-19]
- e. Muzzle velocity [p. 13-17]
- f. Direction of feed [p. 13-26]
- g. Rates of fire [p. 13-19]

(Signature and Date)

- .13 Discuss setting headspace and timing on the .50 caliber machine gun. [ref. a, pp. 13-28, 13-29]

(Signature and Date)

The following items apply to the 60mm mortar (M 224):

- .14 Discuss the tactical purposes of this weapon. [ref. a, p. 14-1]

(Signature and Date)

- .15 Describe the two methods of firing. [ref. a, p. 14-2]

(Signature and Date)

104 WEAPONS FUNDAMENTALS (CONT'D)

104.16 Describe loading/unloading procedures. [ref. a, pp. 14-12 thru 14-15]

(Signature and Date)

.17 State the following capabilities/characteristics:

- a. Length [ref. a, p. 14-1]
- b. Weight [ref. a, p. 14-1]
- c. Ammunition types [ref. a, pp. 14-4, 14-5]
- d. Maximum effective range [ref. a, p. 14-1]
- e. Maximum/minimum elevations [ref. e, p. 4-4]
- f. Propellant increment charges [ref. a, p. 14-6]
- g. Safety [ref. a, pp. 14-13 thru 14-15]

(Signature and Date)

.18 Discuss the role and mission of the following:

- a. Forward Observer (FO) [ref. a, pp. 14-16 thru 14-19]
- b. Fire Direction Center (FDC) [ref. a, p. 14-19]
- c. Fire Support Coordinator (FSC) [ref. d, p. 10-3]

(Signature and Date)

The following items apply to the 40mm M203 grenade launcher:

.19 Describe the 40mm M203 grenade launcher. [ref. a, p. 13-1]

(Signature and Date)

.20 Describe how the weapon is held when fired. [ref. a, p. 13-3]

(Signature and Date)

.21 Discuss loading/unloading procedures. [ref. a, pp. 13-3, 13-4]

(Signature and Date)

104 WEAPONS FUNDAMENTALS (CONT'D)

104.22 State the following capabilities/characteristics: [ref. a]

- a. Weight [p. 13-1]
- b. Ammunition type [p. 13-4]
- c. Maximum effective range (area target) [p. 13-1]
- d. Maximum effective range (point target) [p. 13-1]
- e. Maximum range [p. 13-1]

(Signature and Date)

The following items apply to the 12-gauge shotgun:

.23 Describe the operation of the 12-gauge shotgun. [ref. f, p. R3-27]

(Signature and Date)

.24 Discuss loading/unloading procedures. [ref. f, p. R3-26]

(Signature and Date)

.25 State the following capabilities/characteristics: [ref. f, p. R3-25]

- a. Length
- b. Safeties
- c. Ammunition type

(Signature and Date)

The following items apply to the 5.56mm M16 rifle:

.26 Describe the 5.56mm M16 rifle. [ref. a, pp. 3-1 thru 3-3]

(Signature and Date)

.27 Describe how the weapon is held when fired. [ref. a, p. 3-9]

(Signature and Date)

104 WEAPONS FUNDAMENTALS (CONT'D)

104.28 Discuss loading/unloading procedures. [ref. a, pp. 3-8, 3-9]

(Signature and Date)

.29 State the following capabilities/characteristics:

- a. Length [ref. g, p. 2-2]
- b. Weight [ref. g, p. 2-2]
- c. Maximum range [ref. g, p. 2-3]
- d. Maximum effective range [ref. g, p. 2-3]
- e. Muzzle velocity [ref. g, p. 2-3]
- f. Safeties [ref. a, pp. 3-3, 3-4]
- g. Magazine capacity [ref. g, p. 2-3]
- h. Types of ammunition [ref. g, p. 2-2]
- i. Rates of fire [ref. g, p. 2-3]
- j. Modes of fire [ref. g, p. 2-3]

(Signature and Date)

The following items apply to grenades:

.30 Describe the six different types of grenades. [ref. a, pp. 12-1 thru 12-3]

(Signature and Date)

.31 Discuss hand grenade safety procedures. [ref. a, p. 12-8]

(Signature and Date)

.32 Discuss the uses of fragmentation and chemical hand grenades. [ref. a, pp. 12-1, 12-2]

(Signature and Date)

.33 State when, if ever, the safety pin of the MK 1 illuminating grenade can be replaced. [ref. a, p. 12-8]

(Signature and Date)

104 WEAPONS FUNDAMENTALS (CONT'D)

The following items apply to the M18A1 Claymore mine:

- 104.34 Describe the M18A1 Claymore mine. [ref. a, pp. 12-9, 12-10]

(Signature and Date)

- .35 Discuss the placement, arming, and safety requirements of the Claymore mine. [ref. a, pp. 12-9 thru 12-12]

(Signature and Date)

- .36 Describe the coverage and methods of fire. [ref. a, p. 12-12]

(Signature and Date)

The following items apply to the 84mm M136 (AT-4):

- .37 Describe the 84mm M136 (AT-4). [ref. a, p. 14-20]

(Signature and Date)

- .38 Describe how the weapon is held when fired. [ref. a, pp. 14-30 thru 14-32]

(Signature and Date)

- .39 State the following capabilities/characteristics: [ref. a]

- a. Length [p. 14-21]
- b. Weight [p. 14-21]
- c. Maximum range [p. 14-21]
- d. Maximum effective range [p. 14-21]
- e. Muzzle velocity [p. 14-21]
- f. Controls [p. 14-22]
- g. Ammunition [p. 14-22]
- h. Misfire procedures [pp. 14-26, 14-27]
- i. Minimum arming range [p. 14-21]
- j. Safety [pp. 14-32, 14-33]

(Signature and Date)

104 WEAPONS FUNDAMENTALS (CONT'D)

- 104.40 Describe the use and purpose of the range card as it relates to each weapon system. [ref. c, pp. 4-17 thru 4-22]

(Signature and Date)

- .41 Discuss the effectiveness and employment of early warning devices and pyrotechnics. [ref. a, pp. 12-11 thru 12-13]

(Signature and Date)

- .42 Discuss the tactical employment and purpose of Naval Mobile Construction Battalion (NMCB) weapons systems. [ref. c, pp. 4-1 thru 4-27]

(Signature and Date)

- .43 Discuss the various rates of fire: [ref. g, p. 4-2]

- a. Rapid
- b. Sustained
- c. Cyclic

(Signature and Date)

- .44 Explain the various class of fire: [ref. a, pp. 3-30, 3-31]

- a. Grazing
- b. Plunging
- c. Overhead
- d. Fixed
- e. Traversing
- f. Searching
- g. Combined searching and traversing
- h. Swinging traverse
- i. Free

(Signature and Date)

104 WEAPONS FUNDAMENTALS (CONT'D)

104.45 Discuss the use and purpose of the following Night Observation Devices (NOD):

- a. AN/PVS-4 (individual) [ref. h]
- b. AN/TVS-5 (crew serve) [ref. i]
- c. AN/PVS-7C (night goggles) [ref. j]
- d. AN/PVS-11 (pocket scope) [ref. k]

(Signature and Date)

105 EMBARKATION FUNDAMENTALS

References:

- [a] COMSECONDNCB/COMTHIRDNCBINST 3122.1, Embarkation Manual
 - [b] COMSECONDNCB/COMTHIRDNCBINST 1500.1A, Naval Construction Force Training Requirement
 - [c] NAVFAC P-2010, Naval Construction Force Maritime Prepositioning Force and Policy Manual
 - [d] NAVFAC P-437, Planning Guide for Navy Facilities, Vol. 1
-

- 105.1 Explain the operations of the battalion Mount Out Central Control (MOCC).
[ref. a, p. 3-1]

(Signature and Date)

- .2 Discuss who is responsible for the operation of the battalion MOCC. [ref. a, p. 3-1]

(Signature and Date)

- .3 Identify embarkation training requirements. [ref. a, p. 1-1; ref. b, enc. 1, p. 10-11]

(Signature and Date)

- .4 Discuss the Maritime Prepositioning Force. [ref. c]

(Signature and Date)

- .5 Discuss the organic Table of Allowance (TOA) capability for self-sustainability.
[ref. d]

(Signature and Date)

106 CONTINGENCY OPERATIONS FUNDAMENTALS

References:

- [a] COMSECONDNCB/COMTHIRDNCBINST 3300.1 Rapid Runway Repair
 - [b] NAVFAC P-437, Planning Guide for Navy Facilities, Vol. 1
 - [c] NAVEDTRA 12543, Naval Construction Force/Seabee 1 & C
 - [d] COMCBPAC/COMCBLANTINST 11014.2, Maintenance Management Program for Naval Construction Force (NCF) Camps
 - [e] COMSECONDNCB/COMTHIRDNCBINST 4400.3, Seabee Supply Manual
 - [f] NAVEDTRA 10636-J, Construction Electrician 3 & 2
 - [g] FM 5-277, Bailey Bridge
 - [h] TM-08676A-10/1-1, Medium Girder Bridge, Marine Corps
-

106.1 Explain the procedures for Rapid Runway Repair (RRR). [ref. a]

(Signature and Date)

.2 State how many members are to be trained at a battalion level to satisfy the requirements of RRR. [ref. a, p. 6-1]

(Signature and Date)

.3 Describe the duties and responsibilities of a damage assessment team and state what type of equipment is necessary to perform their mission under Battle Damage Repair (BDR)/RRR. [ref. a, ch. III, annex B]

(Signature and Date)

.4 Explain the fundamentals of a typical battalion tent camp layout. [ref. b, DWG 6027643]

(Signature and Date)

.5 Describe a typical Level I and how it is generated and updated. [ref. d, p. 1-1]

(Signature and Date)

106 CONTINGENCY OPERATIONS FUNDAMENTALS (CONT'D)

106.6 Describe the information found on a Level II. [ref. c, p. 2-25]

(Signature and Date)

.7 Describe the information found on a Level III. [ref. c, p. 2-26]

(Signature and Date)

.8 State the purposes of the quality control and the project safety plans contained in the project package. [ref. c, pp. 2-40 thru 2-45, 3-1 thru 3-4]

(Signature and Date)

.9 Describe the duties and responsibilities of the Material Liaison Officer (MLO) within the battalion organization. [ref. e, pp. 1-16, 1-17]

(Signature and Date)

.10 Explain the procedures for receipt and storage of project material within the MLO office. [ref. e, ch. 4]

(Signature and Date)

.11 Describe the procedures for issuing project material from the MLO office. [ref. c, p. 3-20]

(Signature and Date)

.12 Discuss the importance in attaining and maintaining complete and accurate Construction Activity Summary Sheets (CASS) for proper project management. [ref. c, p. 2-12]

(Signature and Date)

.13 Discuss the purpose of the trouble desk as it relates to camp maintenance. [ref. c, p. 6-6]

(Signature and Date)

106 CONTINGENCY OPERATIONS FUNDAMENTALS (CONT'D)

- 106.14 Discuss the three types of inspection performed on camp facilities/equipment.
[ref. c, pp. 6-19 thru 6-23]

(Signature and Date)

- .15 State the three types of work in camp maintenance. [ref. c, pp. 6-9 thru 6-18]

(Signature and Date)

- .16 Explain the purpose of maintaining operator logs for camp equipment. [ref. f,
p. 4-22]

(Signature and Date)

- .17 Describe the purpose of ground rods use with portable electrical distribution
systems? [ref. f, pp. 4-9 thru 4-12]

(Signature and Date)

- .18 Discuss the purpose of generator sheltering. [ref. f, p. 4-3]

(Signature and Date)

- .19 Discuss the following transportable bridges:

- a. Bailey [ref. g]
- b. Medium girder [ref. h]

(Signature and Date)

107 CIVIL ENGINEER SUPPORT EQUIPMENT (CESE) FUNDAMENTALS

References:

- [a] NAVFAC P-300, Management of Civil Engineering Support Equipment
 - [b] COMSECONDNCB/COMTHIRDNCBINST 11200.1, Equipment Management (Red Book)
 - [c] NAVFAC P-307, Management of Weight Handling Equipment
 - [d] NAVFAC P-25, NMCB Table of Allowance
-

- 107.1 State the purpose of the Battalion Equipment Evaluation Program (BEEP). [ref. b, p. 4-16]

(Signature and Date)

- .2 State the various types of Civil Engineer Support Equipment (CESE) found in the P-25. [ref. d, sec. 4]

(Signature and Date)

- .3 Discuss the purpose of the following publications and instructions:

- a. P-300 [ref. a]
- b. COMSECONDNCB/COMTHIRDNCBINST 11200 [ref. b]
- c. P-307 [ref. c]

(Signature and Date)

- .4 State the purposes and uses of the following licenses: [ref. b]

- a. OF/346 [p. 5-77]
- b. 11260/2 [p. 5-78]

(Signature and Date)

- .5 Describe the term deadline. [ref. b, p. 11-33]

(Signature and Date)

**107 CIVIL ENGINEER SUPPORT EQUIPMENT (CESE) FUNDAMENTALS
(CONT'D)**

107.6 Describe the Live Storage Program. [ref. a, p. N-1]

(Signature and Date)

300 INTRODUCTION TO WATCHSTATIONS

300.1 INTRODUCTION

The Watchstation section of your PQS is where you get a chance to demonstrate to your Qualifier that you can put the knowledge you have gained in the previous sections to use. It allows you to practice the tasks required for your watchstation and to handle abnormal conditions and emergencies. Before starting your assigned tasks, you must complete the prerequisites that pertain to the performance of that particular task. Satisfactory completion of all prerequisites is required prior to achievement of final watchstation qualification.

300.2 FORMAT

Each watchstation in this section contains:

- A FINAL QUALIFICATION PAGE, which is used to obtain the required signatures for approval and recording of Final Qualification.
- PREREQUISTES, which are items that must be certified completed before you can begin qualification for a particular watchstation. Prerequisites may include schools, watchstation qualifications from other PQS books, and fundamentals, systems, or watchstation qualifications from this book. Prior to signing off each prerequisite line item, the Qualifier must verify completion from existing records. Record the date of actual completion, not the sign-off date.
- WATCHSTATION Performance, which is the practical factors portion of your qualification. The performance is broken down as follows:

- Tasks (routine operating tasks that are performed frequently)
- Infrequent Tasks
- Abnormal Conditions
- Emergencies
- Training Watches

If there are multiple watchstations, a QUALIFICATION PROGRESS SUMMARY will appear at the end of the Standard.

300 INTRODUCTION TO WATCHSTATIONS (CONT'D)

300.3 OPERATING PROCEDURES

The PQS deliberately makes no attempt to specify the procedures to be used to complete a task or control or correct a casualty. The only proper sources of this information are the appropriate technical manuals. Additionally, the level of accuracy required of a trainee may vary from school to school and unit to unit based upon such factors as mission requirements. Thus, proficiency may be confirmed only through demonstrated performance at a level of competency sufficient to satisfy the Commanding Officer.

300.4 DISCUSSION ITEMS

Though actual performance of evolutions is always preferable to observation or discussion, some items listed in each watchstation may be too hazardous or time consuming to perform or simulate. Therefore, you may be required to discuss such items with your Qualifier.

300.5 NUMBERING

Each Final Qualification is assigned both a watchstation number and a NAVEDTRA Final Qualification number. The NAVEDTRA number is to be used for recording qualifications in service and training records.

300.6 HOW TO COMPLETE

After completing the required prerequisites applicable to a particular task, you may perform the task under the supervision of a qualified watchstander. If you satisfactorily perform the task and can explain each step, your Qualifier will sign you off for that task. After all line items have been completed, your Qualifier will verify Final Qualification by signing and dating the Final Qualification pages.

FINAL QUALIFICATION

NAVEDTRA 43904-1

301 SEABEE COMBAT WARFARE (SCW), UNIT SPECIFIC FOR NMCB

NAME _____ RATE/RANK _____

This page is to be used as a record of satisfactory completion of designated sections of the Personnel Qualification Standard (PQS). Only specified supervisors may signify completion of applicable sections either by written or oral examination, or by observation of performance. The examination or checkout need not cover every item; however, a sufficient number should be covered to demonstrate the examinee's knowledge. Should supervisors *give away* their signatures, unnecessary difficulties can be expected in future routine operations.

This qualification section is to be kept in the individual's training jacket.

The trainee has completed all PQS requirements for this watchstation. Recommend designation as a qualified SEABEE COMBAT WARFARE (SCW), UNIT SPECIFIC FOR NMCB (NAVEDTRA 43904-1).

RECOMMENDED _____ DATE _____
Supervisor

RECOMMENDED _____ DATE _____
Division Officer/Company Chief

RECOMMENDED _____ DATE _____
Training Department

QUALIFIED _____ DATE _____
Commanding Officer or Designated Representative

SERVICE RECORD ENTRY _____ DATE _____

WATCHSTATION 301

301 SEABEE COMBAT WARFARE (SCW), UNIT SPECIFIC FOR NMCB

Estimated completion time: 12 months

301.1 PREREQUISITES

FOR OPTIMUM TRAINING EFFECTIVENESS, THE FOLLOWING PQS ITEMS SHOULD BE COMPLETED PRIOR TO STARTING YOUR ASSIGNED TASKS BUT MUST BE COMPLETED PRIOR TO FINAL WATCHSTATION QUALIFICATION.

301.1.1 PQS QUALIFICATIONS:

Seabee Combat Warfare (SCW), Common Core (NAVEDTRA 43904), 301 Final Qualification

Completed _____
(Qualifier and Date)

.2 FUNDAMENTALS FROM THIS PQS:

101 Administration/Command and Control

Completed _____ 7% of Watchstation
(Qualifier and Date)

102 Supply/Logistics

Completed _____ 7% of Watchstation
(Qualifier and Date)

103 Communications/Communications Security Material System

Completed _____ 7% of Watchstation
(Qualifier and Date)

104 Weapons

Completed _____ 7% of Watchstation
(Qualifier and Date)

105 Embarkation

Completed _____ 7% of Watchstation
(Qualifier and Date)

301 SEABEE COMBAT WARFARE (SCW), UNIT SPECIFIC FOR NMCB (CONT'D)

301.1.2 106 Contingency Operations

Completed _____ 7% of Watchstation
(Qualifier and Date)

107 Civil Engineer Support Equipment (CESE)

Completed _____ 7% of Watchstation
(Qualifier and Date)

301.2 TASKS

For the tasks listed below:

- A. What are the steps of this procedure?
- B. What are the reasons for each step?
- C. What control/coordination is required?
- D. What means of communications are used?
- E. What safety precautions must be observed?
- F. Satisfactorily perform this task IAW your command's SOPs.

Questions

The following items apply to weapons:

301.2.1 9mm pistol:

- a. Demonstrate the four weapons conditions A B C E F

(Signature and Date)

- b. Load and unload the magazine A B E F

(Signature and Date)

- c. Fieldstrip A B C E F

(Signature and Date)

- d. Clean and lubricate A B D E F

(Signature and Date)

301 SEABEE COMBAT WARFARE (SCW), UNIT SPECIFIC FOR NMCB (CONT'D)

		<u>Questions</u> A B D E F
301.2.1	e. Assemble _____ (Signature and Date)	
.2	5.56mm M16 rifle:	
	a. Demonstrate the four weapons conditions _____ (Signature and Date)	A B C E F
	b. Fieldstrip _____ (Signature and Date)	A B D E F
	c. Clean and lubricate _____ (Signature and Date)	A B D E F
	d. Load and unload the magazine _____ (Signature and Date)	A B C E F
	e. Assemble _____ (Signature and Date)	A B D E F
	The following items apply to tactics:	
.3	Inspect, assemble, and perform maintenance on 782 gear _____ (Signature and Date)	A B C D E F
.4	Camouflage yourself and your personal equipment _____ (Signature and Date)	A B C D E F

301 SEABEE COMBAT WARFARE (SCW), UNIT SPECIFIC FOR NMCB (CONT'D)

		<u>Questions</u>
301.2.5	Utilizing a grid map and protractor, give the eight digit coordinate for a specific location	A B C E F
	_____ (Signature and Date)	
.6	Measure the straight line and curved distance between two identified locations on a grid map	A B C E F
	_____ (Signature and Date)	
.7	Utilize the lensatic compass to orient a grid map to the North	A B C E F
	_____ (Signature and Date)	
.8	Utilize the lensatic compass to determine the forward and back azimuths for a given location	A B C D F
	_____ (Signature and Date)	
.9	Draw a squad fire plan	A B C D E F
	_____ (Signature and Date)	
.10	Demonstrate tactical hand signals in small unit movements	A B C D E F
	_____ (Signature and Date)	
.11	Demonstrate the use of the five step paragraph order in relationship to leading a patrol	A B F
	_____ (Signature and Date)	

301 SEABEE COMBAT WARFARE (SCW), UNIT SPECIFIC FOR NMCB (CONT'D)

Questions

The following items apply to communications/Communications Security Material system:

301.2.12 Demonstrate the following with the AN/PRC-119A:

a. Replace battery

A B C E F

(Signature and Date)

b. Switching of fill using keypad

A B C E F

(Signature and Date)

c. Install frequency

A B C E F

(Signature and Date)

d. Transmit and receive

A B C E F

(Signature and Date)

e. Level I maintenance

A B C E F

(Signature and Date)

.13 Demonstrate the following with the AN/PRC-104B:

a. Replace battery

A B C E F

b. Install frequency

A B C E F

c. Transmit and receive

A B C E F

d. Level I maintenance

A B C E F

(Signature and Date)

301 SEABEE COMBAT WARFARE (SCW), UNIT SPECIFIC FOR NMCB (CONT'D)

Questions

301.2.14 Demonstrate the connection of remote unit AN/GRA-39 to the AN/PRC-119A and/or AN/PRC-104B

A B C E F

(Signature and Date)

.15 Draw a company level communication wiring plan

A F

(Signature and Date)

The following items apply to Chemical Biological Radiological (CBR):

.16 Demonstrate the four basic MOPP levels

A B C D E F

(Signature and Date)

.17 Demonstrate the procedures for administering Atropine and Pralidoxime Chloride (Oxime)

A B C E F

(Signature and Date)

The following items apply to logistics:

.18 Fill out and submit a NAVSUP 1250-1:

- a. Requisitioning
- b. Turn-in

A B C F

A B C F

(Signature and Date)

.19 Fill out standard survey form DD-200

A B C F

(Signature and Date)

.20 Locate a specified item within Table of Allowance (TOA) P-25

A B C F

(Signature and Date)

**301 SEABEE COMBAT WARFARE (SCW), UNIT SPECIFIC FOR NMCB
(CONT'D)**

Questions

The following item applies to Civil Engineer Support Equipment (CESE):

- 301.2.21 Perform a prestart inspection using the prescribed check list A B C D E F

(Signature and Date)

The following items apply to administration/command and control:

- .22 Draw a chain-of-command chart from you through your Fleet Commander in Chief (CINC) A B C D F

(Signature and Date)

- .23 Given a battalion Enlisted Distribution Verification Report (EDVR), find the following:
- a. Battalion current NMP and BA A B F
 - b. Warfare qualification A B F
 - c. NEC A B F
 - d. Planned rotation date A B F
 - e. EAOS A B F
 - f. Extension A B F

(Signature and Date)

The following item applies to contingency operation:

- .24 Draw a simple camp layout A B C E F

(Signature and Date)

The following item applies to contingency construction/battle damage repair:

- .25 Given an assembly number, use the NAVFAC P-437 to show the relationship to facilities and components A B C D E F

(Signature and Date)

**301 SEABEE COMBAT WARFARE (SCW), UNIT SPECIFIC FOR NMCB
(CONT'D)**

Questions

301.2.26 Perform as a crew member to erect a squad tent

A B C D E F

(Signature and Date)

COMPLETED .2 AREA COMPRISES 31% OF WATCHSTATION.

301.3 INFREQUENT TASKS

For the infrequent tasks listed below:

- A. What are the steps of this procedure?
- B. What are the reasons for each step?
- C. What control/coordination is required?
- D. What means of communications are used?
- E. What safety precautions must be observed?
- F. Satisfactorily perform or simulate this infrequent task IAW your command's SOPs.

Questions

The following items apply to weapons:

301.3.1 Fire the 12-gauge shotgun for familiarization

A B C D E F

(Signature and Date)

- .2 Throw a practice grenade from the standing, kneeling, and prone positions, observing all safety precautions

A B C D E F

(Signature and Date)

The following items apply to tactics:

- .3 Perform the following tasks as a member of a security patrol:

- a. Exit friendly lines

A B C D E F

(Signature and Date)

**301 SEABEE COMBAT WARFARE (SCW), UNIT SPECIFIC FOR NMCB
(CONT'D)**

		<u>Questions</u> A B C D E F
301.3.3	b. Perform a security halt	
	_____ (Signature and Date)	
	c. Set up hasty ambush	A B C D E F
	_____ (Signature and Date)	
	d. React to a near and far ambush	A B C D E F
	_____ (Signature and Date)	
	e. React to a chance contact	A B C D E F
	_____ (Signature and Date)	
	f. Cross linear danger areas	A B C D E F
	_____ (Signature and Date)	
	g. Reenter friendly lines	A B C D E F
	_____ (Signature and Date)	
	h. Demonstrate procedures for handling Enemy Prisoner of War (EPW)	A B C D E F
	_____ (Signature and Date)	
	The following items apply to communications/Communications Security Material system:	
.4	Set up and communicate using a TA-312/PT telephone set	A B C E F
	_____ (Signature and Date)	

301 SEABEE COMBAT WARFARE (SCW), UNIT SPECIFIC FOR NMCB (CONT'D)

		<u>Questions</u>
301.3.5	Perform as a crew member in the erection of the OE-254 antenna	A B C D E F
	_____ (Signature and Date)	
.6	Draft a SPOT report and SALUTE report utilizing the field message book	A B F
	_____ (Signature and Date)	
	The following items apply to CESE:	
.7	Fill out an equipment request	A B C F
	_____ (Signature and Date)	
	The following items apply to contingency construction:	
.8	Perform as a crew member to erect a:	
a.	Bunker	A B C D E F
	_____ (Signature and Date)	
b.	Strongback tent	A B C D E F
	_____ (Signature and Date)	
c.	Seahut	A B C D E F
	_____ (Signature and Date)	
d.	Triple strand wire barrier	A B C E F
	_____ (Signature and Date)	

**301 SEABEE COMBAT WARFARE (SCW), UNIT SPECIFIC FOR NMCB
(CONT'D)**

Questions

301.3.9 Perform as a crew member on a Rapid Runway Repair
(RRR) exercise

A B C D E F

(Signature and Date)

COMPLETED .3 AREA COMPRISES 20% OF WATCHSTATION.

301.4 ABNORMAL CONDITIONS– None to be discussed.

301.5 EMERGENCIES – None to be discussed.

301.6 WATCHES – None.

301.7 EXAMINATIONS

301.7.1 EXAMINATIONS

Pass a written examination

(Signature and Date)

.2 EXAMINATIONS

Pass an oral examination board

(Signature and Date)

LIST OF REFERENCES USED IN THIS PQS

COMCBPAC/COMCBLANTINST 11014.2, Maintenance Management Program for Naval Construction Force (NCF) Camps
COMSECOND/THIRDINST 3501.1, Status of Readiness Training System
COMSECONDNCB/COMTHIRDNCBINST 11200.1, Equipment Management (Red Book)
COMSECONDNCB/COMTHIRDNCBINST 1500.1A, Naval Construction Force Training Requirement
COMSECONDNCB/COMTHIRDNCBINST 3122.1, Embarkation Manual
COMSECONDNCB/COMTHIRDNCBINST 3300.1 Rapid Runway Repair
COMSECONDNCB/COMTHIRDNCBINST 4400.3, Seabee Supply Manual
FM 5-277, Bailey Bridge
FM 23-27-MK19, 40mm Grenade Machine Gun, Mod. 3
FM 23-9, M16A1 AND M16A2 Rifle Marksmanship
FM 23-99, Mortars
KL-43 (Series), Operational Manual
Motorola 68P7991D12-D
Motorola 68P81044C05-A
NAVEDTRA 10636-J, Construction Electrician 3 & 2
NAVEDTRA 12003, Seabee Combat Handbook, Vol. 1
NAVEDTRA 12004, Seabee Combat Handbook, Vol. 2
NAVEDTRA 12443, Gunner's Mate
NAVEDTRA 12543, Naval Construction Force/Seabee 1 & C
NAVFAC P-25, NMCB Table of Allowance
NAVFAC P-300, Management of Civil Engineering Support Equipment
NAVFAC P-307, Management of Weight Handling Equipment
NAVFAC P-315, Naval Construction Force Manual
NAVFAC P-437, Planning Guide for Navy Facilities, Vol. 1
NAVSUP P-485, Afloat Supply, Vol. 1
NAVSUP P-2010, Naval Construction Force Maritime Prepositioning Force and Policy Manual
NAVSEA OP 4067, Operator Manual for AN/VPS-11, Pocket Scope Night Vision Device
NAVSUPINST 4200.85C, International Merchant Purchase Authorization Card (IMPAC) Card
Seabee Logistics Training Guide Series, Logistics Support Module #1
Seabee Logistics Training Guide Series, Logistics Support Module #2
Seabee Logistics Training Guide Series, Logistics Support Module #3
TM-08676A-10/1-1, Medium Girder Bridge, Marine Corps
TM-10247A-13, Limited Maintenance Manual TSEC K99A
TM-11-5810-292-13&P, Technical Manual KYK-13, KOI
TM-11-5820-890-10-8, SINCGARS Ground Combat Net Radio, ICOM
TM-11-5825-291-13, Satellite Signal Navigation Set AN/PSN-11
TM-11-5855-213-23&P, Night Vision Sight, Individual Weapon
TM-11-5855-214-10, Night Vision Sight, Crew Served Weapon
TM-11-5895-1079-14-1, Facsimile Set, Tactical AN/GXC-71
TM-SW215-AK-MMO-010, Night Vision Sight, Individual Goggles

Personal Qualification Standard Feedback Report

From _____ Date _____

Via _____ Date _____

Department Head

Activity _____

Mailing Address _____

DSN _____

PQS Title _____ NAVEDTRA _____

Section Affected _____

Page Number(s) _____

Remarks/Recommendations (Use additional sheets if necessary):

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